

FIGURE 1A

PROJECT	CLASS	SUBCLASS
EV		
CRAFTSMAN		

241	C	G	T	P	N	Y	L	S	P	E	V	L	N	K	Q	G	H	G	C	E	S	D	I	W	A	L	G	C	V	M	Y	T	M	L	L	G	R	P	P	F	DAPK-1
182	C	G	T	P	N	Y	V	A	P	E	V	L	L	R	Q	G	H	G	P	E	A	D	V	W	S	L	G	C	V	M	Y	T	L	L	C	G	S	P	P	F	g1488263
281	E	T	N	L	K	E	T	Y	R	C	I	R	E	A	R	Y	T	M	P	S	S	L	L	A	P	A	K	H	L	I	A	S	M	L	S	K	N	P	E	DAPK-1	
222	E	T	A	D	L	K	E	T	Y	R	C	I	K	Q	V	H	Y	T	L	P	A	S	L	S	L	P	A	R	Q	L	L	A	I	L	R	A	S	P	R	g1488263	
321	D	R	P	S	L	D	D	I	I	R	H	D	F	F	L	Q	G	F	T	P	D	R	L	S	S	S	C	C	H	T	V	P	D	F	H	L	S	S	P	A	DAPK-1
262	D	R	P	S	I	D	Q	I	L	R	H	D	F	F	T	K	G	Y	T	P	D	R	L	P	I	S	S	C	V	T	V	P	D	L	T	P	P	N	P	A	g1488263
361	K	N	F	F	K	K	A	A	A	L	F	G	G	K	K	D	K	A	R	Y	I	D	T	H	N	R	V	S	K	E	D	E	D	I	Y	K	L	R	H	DAPK-1	
302	R	S	L	F	A	K	V	T	K	S	L	F	G	R	K	K	K	S	K	N	H	-	-	-	-	-	-	A	Q	E	R	D	E	V	S	G	L	V	S	g1488263	
401	D	L	K	K	T	S	I	T	Q	Q	P	S	K	H	R	T	D	E	E	L	Q	P	P	T	T	T	V	A	R	S	G	T	P	A	V	E	N	K	Q	Q	DAPK-1
335	G	L	M	R	T	S	V	G	H	Q	D	A	R	P	E	A	P	A	S	G	P	A	P	V	S	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g1488263
441	I	G	D	A	I	R	M	I	V	R	G	T	L	G	S	C	S	S	S	S	E	C	L	E	D	S	T	M	G	S	V	A	D	T	V	A	R	V	L	R	DAPK-1
368	D	S	S	P	-	-	-	-	-	R	G	T	L	A	S	S	G	D	G	F	E	-	-	E	G	L	T	V	A	T	V	E	S	A	L	C	A	L	R	g1488263	

FIGURE 1B

481	G C L E N M P E A D C I P K E - Q L S T S F Q W V T K W V D Y S N K Y G F G Y Q	DAPK-1
401	N C I A F M P P A E Q N P A P L A Q P E P L V W V S K W V D Y S N K F G F G Y Q	g1488263
520	L S D H T V G V L F N N G A H M S L L P D K K T A H Y Y A E L G Q C S V F P A T	DAPK-1
441	L S S R R V A V L F N D G T H M A L S A N R K T V H Y N P T S T K H F S F S V G	g1488263
560	D A P E Q F I S Q V T V L K Y F S H Y M E E N L M D G G D L P S V T D I R R P -	DAPK-1
481	A V P R A L Q P Q L G I L R Y F A S Y M E Q H L M K G G D L P S V E E V E P A	g1488263
599	R L Y L L Q W L K S D K A L M M L F N D G T F Q V N F Y H D H T K I I I C S Q N	DAPK-1
521	P P L L L Q W V K T D Q A L L M L F S D G T V Q V N F Y G D H T K L I L S G - W	g1488263
639	E E Y L L T Y I N E D R I S T T F R L T T L L M S G C S S E L K N R M E Y A L N	DAPK-1
560	E P L L V T F V A R N R S A C T Y L A S H L R Q L G C S P D L R Q R L R Y A L R	g1488263
679	M L L Q R C - N	DAPK-1
600	L L R D R S P A	g1488263

FIGURE 1C

1	M P P K R	- - - - -	N E K Y K L P I P F P E G K V L D D M E G N Q W V L G	DAPK-2
1	M P R V K A A Q A G R Q S S A K R H L A E Q F A V G E I I T D M A K K E W K V G			g1827450
33	K K I G S G G F G L I Y L A - -	F P T N K P E K D A R H V V K V E Y Q E N G P L	DAPK-2	
41	L P I G Q G G F G C I Y L A D M N S S E S V G S D A P C V V K V E P S D N G P L			g1827450
71	F S E L K F Y Q R V A K K D C I K K W I E R K Q L D Y L G I P L F Y G S G L T E	DAPK-2		
81	F T E L K F Y Q R A A K P E Q I Q K W I R T R K L K Y L G V P K Y W G S G L H D			g1827450
111	F K G R S Y R F M V M E R L G I D L Q K I S G O N G T -	F K K S T V L Q L G I R	DAPK-2	
121	K N G K S Y R F M I M D R F G S D L Q K I Y E A N A K R F S R K T V L Q L S L R			g1827450
150	M L D V L E Y I H E N E Y V H G D V K A A N L L L G Y K N P D Q V Y L A D Y G L	DAPK-2		
161	I L D I L E Y I H E H E Y V H G D I K A S N L L N Y K N P D Q V Y L V D Y G L			g1827450
190	S Y R Y C P N G N H K Q Y O E N P R K G H N G T I E F T S L D A H K G V G E I A	DAPK-2		
201	A Y R Y C P E G V H K E Y K E D P K R C H D G T I E F T S I D A H N G V A P - -			g1827450

FIGURE 2A

Figure 2B

230 QFLVCAHSLAYDEKPNYQALKKILNPHGIPLGPLDfstKG DAPK-2
239 - - - - - SRRG-DLEILGYC-MI g1827450

270 QSINVHTPNSQKVDsqKAATKQVNKAHNRLIEKKVHSERS DAPK-2
253 QWLTGHLPLWEDNLKDPKYVRDS- - - - - g1827450

310 AESCATWKVQKEELIGLMNNEAAQESTR-RRQKYQESQ E DAPK-2
275 - - - - - KIRYRENIASLMDKCFPEKNKPG EIAKYME TVK g1827450

349 PLNEVNSFPQKISYTQFPNSFYEPHQDFTSPDIFK- - - KS DAPK-2
308 LL D- - - YTEKPLYLENLRDILLQGLKAI GSKDDGK L DLSV g1827450

386 RSPSWYKYTSVSTGITDLESSTGLWPTISQFTLSEETNA DAPK-2
344 VENGGLKAKTITKKRKK EIE SKE- - PGVEDTEW SNTQTE g1827450

426 DVYYRYRIIPVLLMLVFLALFFL
382 EAIQTRSRTRKRVQK DAPK-2
g1827450

FIGURE 2B

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIGURE 3A

1	M L A R R K P V L P A L T I N P T I A E G P S P T S E G A S E A N L V D L Q K K	DAPK-3
1	M L A R R K P V L P A L T I N P T I A E G P S P T S E G A S E A H L V D L Q K K	g303804
41	L E E L E L D E Q Q K R L E A F L T Q K A K V G E L K D D D F E R I S E L G A	DAPK-3
41	L E E L D L D E Q Q R K R L E A F L T Q K A K V G E L K D D D F E R I S E L G A	g303804
81	G N G G V V T K V Q H R P S G L I M A R K L I H L E I K P A I R N Q I I R E L Q	DAPK-3
81	G N G G V V T K A R H R P S G L I M A R K L I H L E I K P A V R N Q I I R E L Q	g303804
121	V L H E C N S P Y I V G F Y G A F Y S D G E I S I C M E H M D G G S L D H L L K	DAPK-3
121	V L H E C N S P Y I V G F Y G A F Y S D G E I S I C M E H M D G G S L D Q V L K	g303804
161	E A K R I P E E I L G K V S I A V L R G L A Y L R E K H Q I M H R D V K P S N I	DAPK-3
161	E A K R I P E D I L G K V S I A V L R G L A Y L R E K H Q I M H R D V K P S N I	g303804

FIGURE 3A

APPROVED	J.G. FG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 3B

201	L V N S R G E I K L C D F G V S G Q L I D S M A N S F V G T R S Y M A P E R L Q	DAPK-3
201	L V N S R G E I K L C D F G V S G Q L I D S M A N S F V G T R S Y M S P E R L Q	g303804
241	G T H Y S V Q S D I W S M G L S L V E L A V G R Y P I P P P D A K E L E A I F G	DAPK-3
241	G T H Y S V Q S D I W S M G L S L V E L A I G R Y P I P P P D A K E L E A S F G	g303804
281	R P V V D G E E G E P H S I S P R P R P P G R P V S G H G M D S R P A M A I F E	DAPK-3
281	R P V V D G A D G E P H S V S P R P R P P G R P I S G H G M D S R P A M A I F E	g303804
321	L L D Y I V N E P P P K L P N G V F T P D F Q E F V N K C L I K N P A E R A D L	DAPK-3
321	L L D Y I V N E P P P K L P S G V F S S D F Q E F V N K C L I K N P A E R A D L	g303804
361	K M L T N H T F I K R S E V E E V D F A G W L C K T L R L N Q P G T P T R T A V	DAPK-3
361	K L L T N H A F I K R S E G E D V D F A G W L C R T L R L K Q P S T P T R T A V	g303804

FIGURE 3B

FIGURE 4A

1	M	A	M	T	A	G	T	T	T	F	P	M	S	N	H	T	R	E	R	V	T	V	A	K	L	T	L	E	N	F	Y	S	N	L	I	L	Q	H	E	DAPK-4	
1	M	A	M	T	-	G	S	T	P	C	S	S	M	S	N	H	T	K	E	R	V	T	M	T	K	V	T	L	E	N	F	Y	S	N	L	I	A	Q	H	E	g854170
41	E	R	E	T	R	Q	K	K	L	E	V	A	M	E	E	E	G	L	A	D	E	E	K	K	L	R	R	S	Q	H	A	R	K	E	T	E	F	L	R	L	DAPK-4
40	E	R	E	M	R	Q	K	K	L	E	K	V	M	E	E	E	G	L	K	D	E	E	K	R	L	R	R	S	A	H	A	R	K	E	T	E	F	L	R	L	g854170
81	K	R	T	R	L	G	L	D	D	F	E	S	L	K	V	I	G	R	G	A	F	G	E	V	R	L	V	H	K	K	D	T	G	H	I	Y	A	M	K	I	DAPK-4
80	K	R	T	R	L	G	L	E	D	F	E	S	L	K	V	I	G	R	G	A	F	G	E	V	R	L	V	Q	K	K	D	T	G	H	V	Y	A	M	K	I	g854170
121	L	R	K	S	D	M	L	E	K	E	Q	V	A	H	I	R	A	E	R	D	I	L	V	E	A	D	G	A	W	V	V	K	M	F	Y	S	F	Q	D	K	DAPK-4
120	L	R	K	A	D	M	L	E	K	E	Q	V	G	H	I	R	A	E	R	D	I	L	V	E	A	D	S	L	W	V	V	K	M	F	Y	S	F	Q	D	K	g854170
161	R	N	L	Y	L	I	M	E	F	L	P	G	G	D	M	M	T	L	L	M	K	K	D	T	L	T	E	E	E	T	Q	F	Y	I	S	E	T	V	L	A	DAPK-4
160	L	N	L	Y	L	I	M	E	F	L	P	G	G	D	M	M	T	L	L	M	K	K	D	T	L	T	E	E	E	T	Q	F	Y	I	A	E	T	V	L	A	g854170
201	I	D	A	I	H	Q	L	G	F	I	H	R	D	I	K	P	D	N	L	L	D	A	K	G	H	V	K	L	S	D	F	G	S	C	T	G	L	K	K	DAPK-4	
200	I	D	S	I	H	Q	L	G	F	I	H	R	D	I	K	P	D	N	L	L	D	S	K	G	H	V	K	L	S	D	F	G	L	C	T	G	L	K	K	g854170	

FIGURE 4A

Figure 4B

241	A H R T E F Y R N L T H N P P S D F S F Q N M N S K R K A E T W K K N R R Q L A	DAPK-4
240	A H R T E F Y R N L N H S L P S D F T F Q N M N S K R K A E T W K R N R R Q L A	g854170
281	Y S T V G T P D Y I A P E V F M Q T G Y N K L C D W S L G V I M Y E M L I G Y	DAPK-4
280	F S T V G T P D Y I A P E V F M Q T G Y N K L C D W S L G V I M Y E M L I G Y	g854170
321	P P F C S E T P Q E T Y R K V M N W K E T L V F P P E V P I S E K A K D L I L R	DAPK-4
320	P P F C S E T P Q E T Y K K V M N W K E T L T F P P E V P I S E K A K D L I L R	g854170
361	F C I D S E N R I G N S G V E E I K G H P F F E G V D W E H I R E R P A A I P I	DAPK-4
360	F C C E W E H R I G A P G V E E I K S N S F F E G V D W E H I R E R P A A I S I	g854170
401	E I K S I D D T S N F D D F P E S D I L Q P V P N T T - - - E P D Y K S K D W V	DAPK-4
400	E I K S I D D T S N F D E F P E S D I L K P T V A T S N H P E T D Y K N K D W V	g854170
438	F L N Y T Y K R F E G L T O R G S I P T Y M K A G K L	DAPK-4
440	F I N Y T Y K R F E G L T A R G A I P S Y M K A A K	g854170

FIGURE 4B

1 M L L L K - - - - K H T E D I S S V Y E I R E R L G S G A F S E V V L A Q E R D A P K - 5
1 M L G A V E G P R W K Q A E D I R D I Y D F R D V L G T G A F S E V I L A E D K g 7 9 0 7 9 0

36 G S A H L V A L K C I P K K A L R G K E A L V E N E I A V L R R I S H P N I V A D A P K - 5
41 R T Q K L V A I K C I A K E A L E G K E G S M E N E I A V L H K I K H P N I V A g 7 9 0 7 9 0

76 L E D V H E S P S H L Y L A M E L V T G G E L F D R I M E R G S Y T E K D A S H D A P K - 5
81 L D D I Y E S G G H L Y L I M Q L V S G G E L F D R I V E K G F Y T E R D A S R g 7 9 0 7 9 0

116 L V G Q V L G A V S Y L H S L G I V H R D L K P E N L L Y A T P F E D S K I M V D A P K - 5
121 L I F Q V L D A V K Y L H D L G I V H R D L K P E N L L Y Y S L D E D S K I M I g 7 9 0 7 9 0

156 S D F G L S K I Q - A G N M L G T A C G T P G Y V A P E L L E Q K P Y G K A V D D A P K - 5
161 S D F G L S K M E D P G S V L S T A C G T P G Y V A P E V L A Q K P Y S K A V D g 7 9 0 7 9 0

195 V W A L G V I S Y I L L C G Y P P F Y D E S D P E L F S Q I L R A S Y E F D X P D A P K - 5
201 C W S I G V I A Y I L L C G Y P P F Y D E N D A K L F E Q I L K A E Y E F D S P g 7 9 0 7 9 0

FIGURE 5A

235 F W D D I S E S G K D F I R H L L E R D L Q K R F T C Q Q A L R D L W I F W D T DAPK-5
 241 Y W D D I S D S A K D F I R H L M E K D P E K R F T C E Q A L Q H P W I A G D T g790790
 275 G F G R D I L G F V S E Q I R K N F A W T H W K R A F N A T L F L R H I R K L - DAPK-5
 281 A L D K N I H Q S V S E Q I K K N F A K S K W K Q A F N A T A V V R H M R K L Q g790790
 314 - G Q I P E G E G - - A S E Q G M X R H S H X G - - - - - DAPK-5
 321 L G T S Q E G Q G Q T A S H G E L L T P V A G G P A A G C C C R D C C V E P G T g790790
 335 - L R A G Q P P K W DAPK-5
 361 E L S P T L P H Q L g790790

1	M I L A S V L R S G P G G L P L R P L L G P A L A L R A R S T S A T D T H H V	DAPK-6
1	- - - - -	g924921
41	E M A R E R S K T V T S F Y N Q S A I D A A A E K P S V R L T P T M M L Y A G R	DAPK-6
11	E L A R E R S K T V T S F Y N Q S A I D V V A E K P S V R L T P T M M L Y S G R	g924921
81	S Q D G S H L L K S A R Y L Q Q E L P V R I A H R I K G F R C L P F I I G C N P	DAPK-6
51	S Q D G S H L L K S G R Y L Q Q E L P V R I A H R I K G F R S L P F I I G C N P	g924921
121	T I L H V H E L Y I R A F Q K L T D F P P I K D Q A D E A Q Y C Q L V R Q L L D	DAPK-6
91	T I L H V H E L Y I R A F Q K L T D F P P I K D Q A D E A Q Y C Q L V R Q L L D	g924921
161	D H K D V V T L L A E G L R E S R K H I E D E K L V R Y F L D K T L T S R L G I	DAPK-6
131	D H K D V V T L L A E G L R E S R K H I E D E K L V R Y F L D K T L T S R L G I	g924921
201	R M L A T H H L A L H E D K P D F V G I I C T R L S P K K I I E K W V D F A R R	DAPK-6
171	R M L A T H H L A L H E D K P D F V G I I C T R L S P K K I I E K W V D F A R R	g924921

FIGURE 6A

APPROVED	DATE
BY	CLASS
DRAFTSMAN	SUBJECT

241	L C E H K Y G N A P R V R I N G H V A A R F P F I P M P L D Y I L P E L L K N A	DAPK-6
211	L C E H K Y G N A P R V R I N G H V A A R F P F I P M P L D Y I L P E L L K N A	9924921
281	M R A T M E S H L D T P Y N V P D V V I T I A N N D V D L I I R I S D R G G I	DAPK-6
251	M R A T M E S H L D T P Y N V P D V V I T I A N N D V D L I I R I S D R G G I	9924921
321	A H K D L D R V M D Y H F T T A E A S T Q D P R I S P L F G H L D M H S G A Q S	DAPK-6
291	A H K D L D R V M D Y H F T T A E A S T Q D P R I S P L F G H L D M H S G G Q S	9924921
361	G P M H G F G F G L P T S R A Y A E Y L G G S L Q L Q S L Q G I G T D V Y L R L	DAPK-6
331	G P M H G F G F G L P T S R A Y A E Y L G G S L Q L Q S L Q G I G T D V Y L R L	9924921
401	R H I D G R E E S F R I	DAPK-6
371	R H I D G R E E S F R I	9924921

FIGURE 6B

1 MLEKLEFDEAEVSE - - - - - SGVYMRFRSHKCYD DAPK-7
1 METVISSDSSPAVEN EHPQETPESNN SVYTSFMKSHRCYD g1335856

32 IVP TSSSKLVVFDDTTLQVKKAF FALVANGVRAAPLWESKKQ DAPK-7
41 LIP TSSSKLVVFDDTSLQVKKAF FALVTNGVRAAPLWD SKKQ g1335856

72 SFVGM LTI TD F I N I L H R Y Y K S P M V Q I Y E L E E H K I E T W R E L DAPK-7
81 SFVGM LTI TD F I N I L H R Y Y K S A L V Q I Y E L E E H K I E T W R E V g1335856

112 YLQETFKPLVNI SPDA S L F D A V Y S L I K N K I H R L P V I D P I S DAPK-7
121 YLQDSFKPLVCI SPNA S L F D A V S S L I R N K I H R L P V I D P E S g1335856

152 GNA L Y I L T H K R I L K F L Q L F M S D M P K P A F M K Q N L D E L G I G T DAPK-7
161 GNT L Y I L T H K R I L K F L K L F I T E F P K P E F M S K S L E E L Q I G T g1335856

FIGURE 7A

APPROVED	C.G. F.G.
BY	CLASS-SUBCLASS
DRAFTSMAN	

192 Y H N I A F I H P D T P I I K A L N I F V E R R I S A L P V V D E S G K V V D I DAPK-7
 201 Y A N I A M V R T T T P V Y V A L G I F V Q H R V S A L P V V D E K G R V V D I g1335856

 232 Y S K F D V I N L A A E K T Y N N L D I T V T Q A L Q H R S Q Y F F E G V V K C N DAPK-7
 241 Y S K F D V I N L A A E K T Y N N L D V S V T K A L Q H R S H Y F F E G V L K C Y g1335856

 272 K L E I L E T I V D R I V R A E V H R L V V V N E A D S I V G I I S L S D I L Q DAPK-7
 281 L H E T L E T I I N R L V E A E V H R L V V V D E N D V V K G I V S L S D I L Q g1335856

 312 A L I L T P A G A K Q K E T E T E DAPK-7
 321 A L V L T G G E K K P g1335856

FIGURE 7B